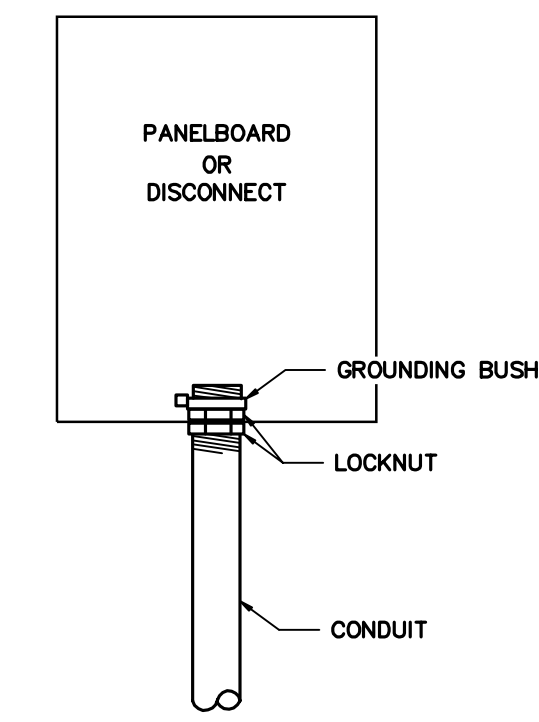
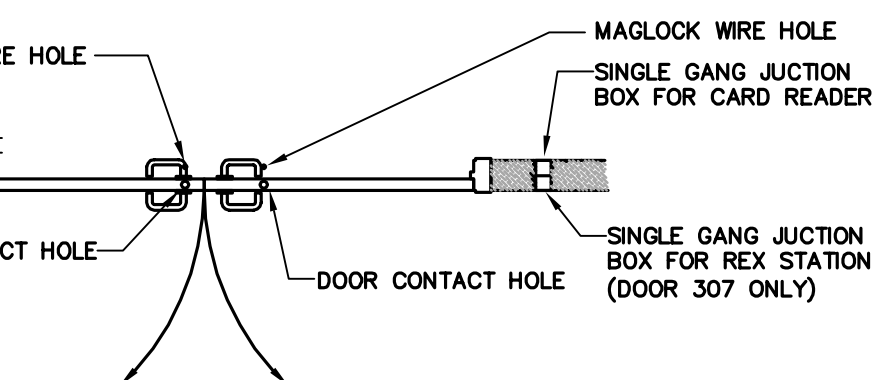
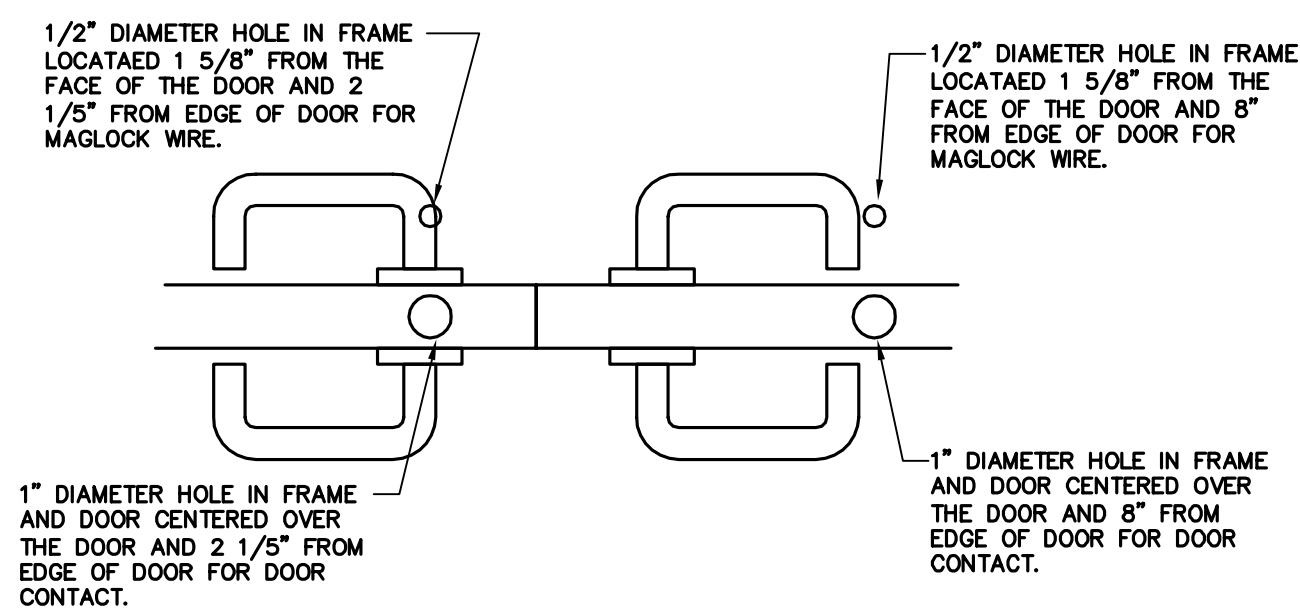


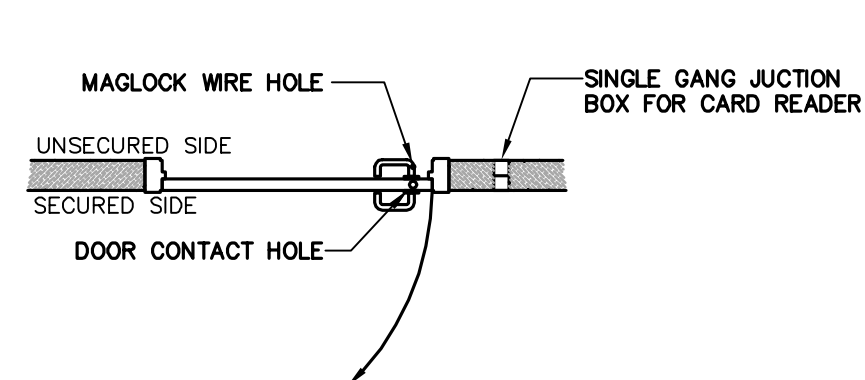
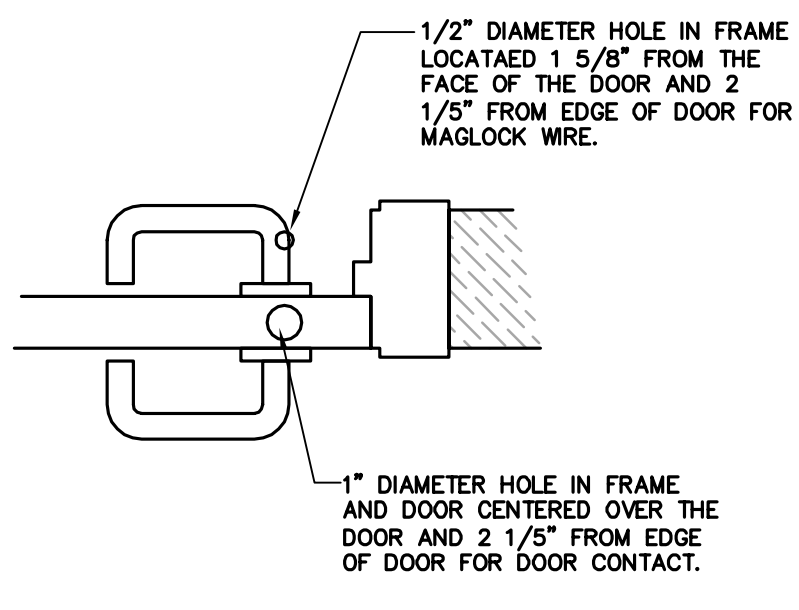
7
E002
DETAIL
BRANCH CIRCUIT
CONDUIT TERMINATION
NO SCALE



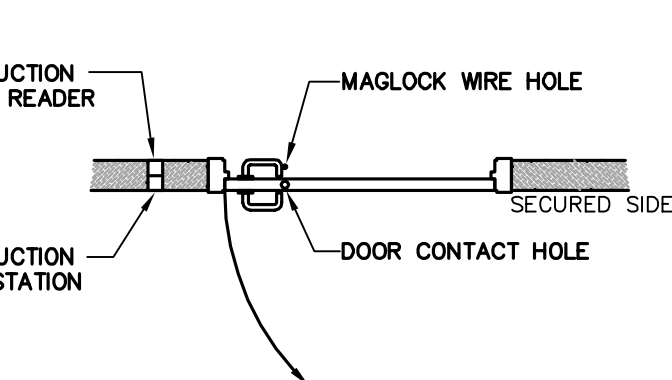
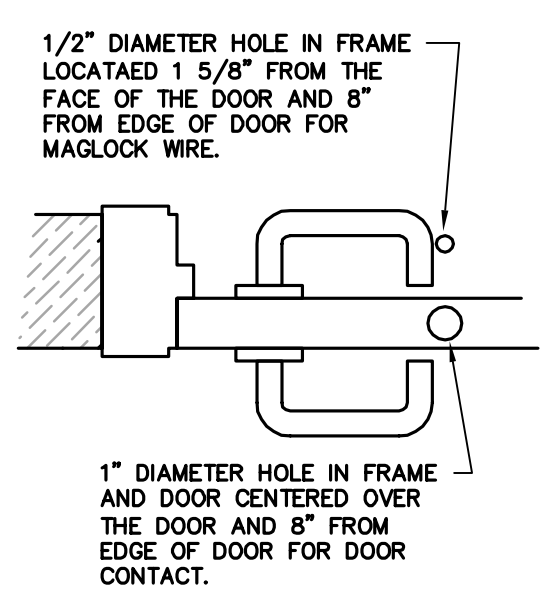
6
E002
DETAIL
CONDUIT TERMINATION
NO SCALE



5
E002
DETAIL
SECURITY - DOUBLE DOORS
NO SCALE



4
E002
DETAIL
SECURITY - SINGLE RIGHT HAND DOOR
NO SCALE



3
E002
DETAIL
SECURITY - SINGLE LEFT HAND DOOR
NO SCALE

LUMINAIRE SCHEDULE NOTES

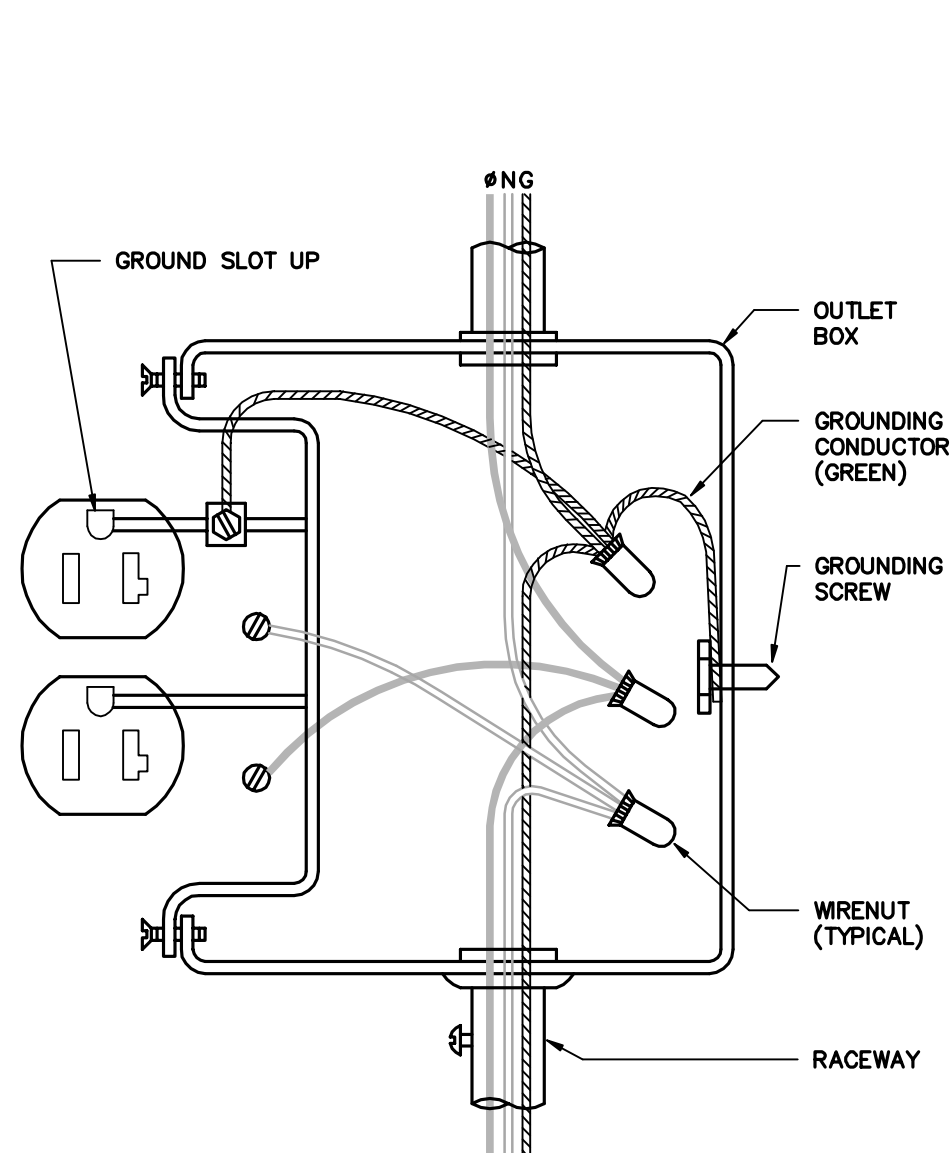
- MANUFACTURER CATALOG NUMBERS ARE SHOWN FOR GENERAL DESCRIPTIVE PURPOSES AND TO ESTABLISH STANDARD OF QUALITY ONLY. CONTRACTOR SHALL PROVIDE LUMINAIRES COMPLETE WITH ALL OPTIONS AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. ALL PRODUCTS SHALL BE U.L. LISTED.
- PROVIDE PROPER LAMP FOR REFLECTOR ASSEMBLY SPECIFIED AND AS RECOMMENDED BY LUMINAIRE MANUFACTURER.
- LINEAR FLUORESCENT LAMPS/ELECTRONIC BALLAST.
FURNISH ALL LINEAR FLUORESCENT LAMPED LUMINAIRES WITH ENERGY EFFICIENT LAMPS AND ELECTRONIC BALLAST.
a. FURNISH SOLID STATE HIGH FREQUENCY RAPID OR INSTANT START BALLAST FOR LINEAR FLUORESCENT LUMINAIRES. BALLAST SHALL HAVE FIVE (5) YEAR MANUFACTURER'S WARRANTY.
b. BALLAST SHALL BE HIGH FREQUENCY (20KHz OR GREATER), OPERATE WITHOUT DETECTABLE FLICKER, AND SHALL PROVIDE FULL LIGHT OUTPUT. BALLAST SHALL BE U.L. CLASS P RATED FOR THERMAL PROTECTION AND RATED AT 50 DEGREES F STARTING TEMPERATURE. BALLAST SHALL NOT CONTAIN POS TYPE MATERIAL.
c. BALLAST SHALL COMPLY WITH FCC AND NEMA LIMITS GOVERNING EMI AND RFI AND SHALL NOT INTERFERE WITH OPERATION OF OTHER NORMAL ELECTRICAL EQUIPMENT. TOTAL HARMONIC DISTORTION SHALL BE LESS THAN 20%. BALLAST SHALL BE SOUND RATED A AND SHALL HAVE A CREST FACTOR OF 1.7 OR LESS.
SYSTEM OF LAMPS AND BALLAST (IN ENCLOSED FLUORESCENT FIXTURE) SHALL PRODUCE THE FOLLOWING WHEN USED TOGETHER.

CONFIGURATION	BALLAST FACTOR	BALLAST EFFICACY FACTOR
2-LAMP	.88	1.46
3-LAMP	.88	1.00
4-LAMP	.85	0.75

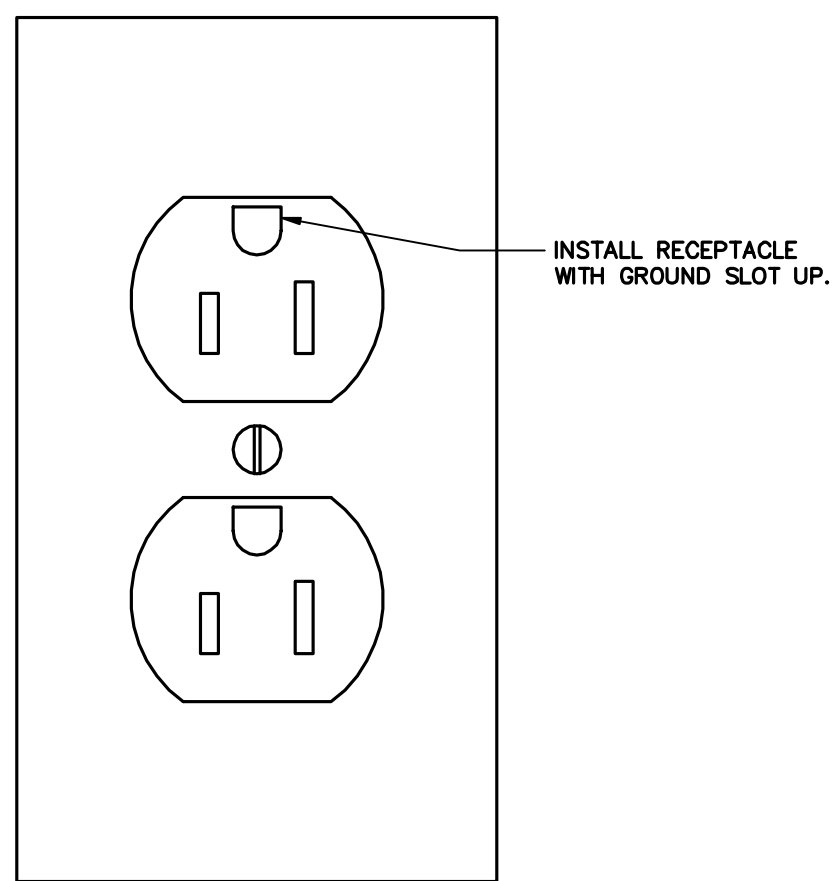
ACCEPTABLE BALLAST MANUFACTURER: ADVANCE, OSRAM/SYLVANIA, HOWARD INDUSTRIES, UNIVERSAL, VALMONT.
4. COMPACT FLUORESCENT LAMPS/ELECTRONIC BALLAST.
COMPACT FLUORESCENT LUMINAIRES WITH RAPID START LAMPS (> 13 WATT) SHALL BE FURNISHED WITH PROGRAMMED RAPID START ELECTRONIC BALLAST. BALLAST SHALL BE UNIVERSAL VOLTAGE (120 OR 277V) AND OPERATE 26, 32 OR 42 WATT COMPACT FLUORESCENT LAMPS, IN ONE OR TWO LAMP CONFIGURATIONS, WITHOUT CHANGING BALLAST WIRING.
BALLAST SHALL BE HIGH FREQUENCY, RAPID START, AND OPERATE LAMP WITHOUT DETECTABLE FLICKER. BALLAST SHALL BE HIGH POWER FACTOR (PF > 0.95), THD < 10%, AND BALLAST FACTOR > 0.95. BALLAST SHALL INCORPORATE AN END-OF-LIFE PROTECTIVE LAMP CIRCUIT.
ACCEPTABLE BALLAST MANUFACTURER: ADVANCE, OSRAM/SYLVANIA, ROBERTSON, UNIVERSAL.
- PROVIDE FUSES FOR UNGROUNDED CONDUCTORS SUPPLYING FLUORESCENT AND H.I.D. BALLASTS. FLUORESCENT: GMF/HLR H.I.D.: HEB/KTK. PROVIDE FUSE SIZED FOR RATING OF BALLAST.
- ACCEPTABLE LAMP MANUFACTURERS:
FLUORESCENT & INCANDESCENT: GE, OSRAM/SYLVANIA, PHILIPS, HID AND QUARTZ-HALOGEN LAMPS: GE, OSRAM/SYLVANIA, PHILIPS, VENTURE, USHIO
- PROVIDE FLUORESCENT LAMPS WITH LOW-MERCURY CONTENT, COMPLIANT WITH FEDERAL EPA TCLP REQUIREMENTS, a.k.a "ECO", "ALTO", OR "ECOLUX"
- VERIFY CONSTRUCTION OF CEILINGS BEING INSTALLED AND PROVIDE THE LUMINAIRES SPECIFIED IN APPROPRIATE CONFIGURATION WITH ALL HARDWARE AND ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION.
- PROVIDE LUMINAIRES WITH JOINING PLATES, END CAPS, CANOPIES, MOUNTING HARDWARE, ETC., AS REQUIRED FOR COMPLETE INSTALLATION.
- EXIT LIGHTS SHALL BE PROVIDED WITH COLOR OF LETTERS REQUIRED BY LOCAL CODE AUTHORITY. FURNISH WITH CHEVRON DIRECTIONAL INDICATORS AS INDICATED AND REQUIRED.
- PROVIDE DEVICES FOR SECURING LAY-IN TYPE LUMINAIRES TO CEILING GRID TO COMPLY WITH ARTICLE 410 OF THE NATIONAL ELECTRICAL CODE.
- FURNISH WALL/SLOT LUMINAIRE WITH NECESSARY CORNERS AND END PLATES, MOUNTING HARDWARE, ETC., FOR A COMPLETE INSTALLATION OF CONTINUOUS LIGHTED SLOT FITTING WALL TO WALL OR RUN CONTINUOUS AS SHOWN ON DRAWINGS.
- FURNISH LINEAR LUMINAIRES IN CONTINUOUS ROWS OR PATTERNS AS INDICATED ON DRAWINGS. PROVIDE WITH CORNER, ANGLE, AND END PIECES AS REQUIRED FOR A COMPLETE FINISHED INSTALLATION.
- FURNISH LUMINAIRES IN MECHANICAL SPACES COMPLETE WITH PENDANT STEMS OR CHAIN HANGARS AS REQUIRED TO MOUNT BELOW PIPING, DUCT, CONDUIT, ETC., MAINTAIN MINIMUM 7"-6"H. UNIFORM MOUNTING HEIGHT FOR ALL LUMINAIRES THROUGHOUT EACH AREA.
- PENDANT-MTD LUMINAIRES WITH AIRCRAFT CABLE SUSPENSION SYSTEMS SHALL BE FURNISHED WITH ADJUSTABLE CABLE GRIP HARDWARE. CABLE SIZE SHALL BE SELECTED BY MANUFACTURER TO PROVIDE ADEQUATE SUPPORT OF LUMINAIRE SPECIFIED.
- FLUORESCENT DIMMING BALLAST AND MANUAL (SLIDE-TO-OFF) DIMMER CONTROLS BY LUTRON.
T-8, 100-100% = ECO-10 WITH NF-10-277.
T-8, 100-1% = H1-LUME FDB WITH NF-10-277.
COMPACT, 100-5% = H1-LUME COMPACT WITH NF-10-277.
3-WAY DIMMING = NF-103P-277 WITH NT-3FS.
- LUMINAIRES WITH BALLAST, THAT CAN BE SERVICED IN PLACE, SHALL INCORPORATE A MEANS TO DISCONNECT THE CONDUCTORS SUPPLYING THE BALLAST IN COMPLIANCE WITH 2005 N.E.C. ARTICLE 410.73(G).
- NEW BRANCH CIRCUITS AND/OR PANELBOARDS, IDENTIFIED AS "EMERGENCY," ARE CONNECTING TO AN EXISTING EMERGENCY POWER DISTRIBUTION SYSTEM, WHICH IS A TYPE 1 ESSENTIAL ELECTRICAL SYSTEM AS DEFINED BY NFPA 99(3.4).

LUMINAIRE SCHEDULE CONTINUED

MARK	QTY	LAMPS	VOLTS	DESCRIPTION	SPECIAL OPTIONS & NOTES	MANUFACTURER	CATALOG NUMBER
CREB	1	PLT32W/G24q-3/REB41	120	RECESSED FLUORESCENT DOWNLIGHT, 6" DIAMETER APERTURE, REGRESSED FLAT FRESNEL LENS WITH WHITE DOOR, 7" OVERALL HEIGHT, HORIZONTAL LAMP.	INCLUDE FOAM GASKETING.	GOTHAM OMEGA	LOG-1/32TRT-6RW-FFL-120-GMF-GSKT
GRGG	1	PLT18W/G24q-3/REB41	120	RECESSED FLUORESCENT DOWNLIGHT, 6" DIAMETER APERTURE, CROSS Baffle WITH CLEAR SPECULAR REFLECTOR, WHITE TRIM FLANGE, HORIZONTAL LAMP.	DIMMING BALLAST	GOTHAM OMEGA	POXF-1/18TRT-6AR-CLRF-120-dim-TRW-GMF
CRPB	1	PLT32W/G24q-3/REB41	120	RECESSED FLUORESCENT OPEN DOWNLIGHT, 6" DIAMETER APERTURE, CLEAR ALZAK REFLECTOR, WHITE TRIM FLANGE, HORIZONTAL LAMP.		LITHONIA SPECTRUM	AF-1/42TRT-6AR-120-GMF-4100
FBC4	4	F25T8/REB41	120	FLUORESCENT WALL BRACKET, 3'-0", WITH DIE FORMED STEEL HOUSING, PRISMATIC ACRYLIC LENS, UP AND DOWN LIGHT DISTRIBUTION WITHIN SEPARATE LAMP COMPARTMENTS.	HINGED INDIRECT COMPARTMENT	HILL-ROM	P64S SPECIALITE
FRZ5	6	F32T8/REB41	120	RECESSED STATIC FLUORESCENT SURGICAL TROFFER, 2'x4' FLANGE ASYMMETRICAL LUMINAIRE DISTRIBUTION, WITH PLASTER FRAME, WITH SELF-CONTAINED EMERGENCY BATTERY FOR TWO LAMPS	SUPPRESSOR FOR EACH BALLAST. EMERGENCY BATTERY BALLAST FOR TWO LAMPS. SWITCHING - CENTER TWO LAMPS, SWITCH "a"; REMAINING FOUR LAMPS, SWITCH "b".	ALKCO VISTA	STS240-2/F/8240/EM-2/SLO-BLO
FGA2	2	F32T8/REB41	120	FLUORESCENT RECESSED STATIC LENSED LUMINAIRE, 2'x4' LAY-IN, FLAT STEEL DOOR, 0.125" A-12 CLEAR ACRYLIC PRISMATIC LENS.		COLUMBIA DAYBRITE LITHONIA LSI	2SPB-G-232-A12125-120-GMF
FGA3	3	F32T8/REB41	120	FLUORESCENT RECESSED STATIC LENSED LUMINAIRE, 2'x4' LAY-IN, FLAT STEEL DOOR, 0.125" A-12 CLEAR ACRYLIC PRISMATIC LENS.	FOR DUAL SWITCHING / CIRCUITING - CENTER LAMP = SWITCH "a", OR EM CKT; OUTBOARD LAMP = "b", OR NORMAL CIRCUIT. "a" - DIMMING BALLAST	COLUMBIA DAYBRITE LITHONIA LSI	2SPB-G-332-A12125-120-(dim)-GMF
FGA4	4	F32T8/REB41	120	FLUORESCENT RECESSED STATIC LENSED LUMINAIRE, 2'x4' LAY-IN, FLAT STEEL DOOR, 0.125" A-12 CLEAR ACRYLIC PRISMATIC LENS.		COLUMBIA DAYBRITE LITHONIA LSI	2SPB-G-432-A12125-120-GMF
FGA9	3	F17T8/REB41	120	FLUORESCENT RECESSED STATIC LENSED LUMINAIRE, 2'x2' LAY-IN, FLAT STEEL DOOR, 0.125" A-12 CLEAR ACRYLIC PRISMATIC LENS.		COLUMBIA DAYBRITE LITHONIA LSI	2SPB-G-3-17-A12125-GMF
FGK3 (FGK3d)	3	F32T8/RE741	120	FLUORESCENT RECESSED PARABOLIC LOUVERED LUMINAIRE, 2' x 4' LAY-IN, 18 CELL, 3" DEEP PARABOLIC LOUVER, SEMI-SPECULAR LOW-IRRIDESCENT ALUMINUM.	FOR DUAL SWITCHING / CIRCUITING - CENTER LAMP = SWITCH "a", OR EM CKT; OUTBOARD LAMP = SWITCH "b", OR NORMAL CIRCUIT. "a" = DIMMING BALLAST	COLUMBIA LITHONIA LSI	2PM3-G-8-332-18-LS-120-(dim)-GMF
FMU2	2	F32T8/REB41	120	FLUORESCENT SURFACE MOUNTED LUMINAIRE, ROUGH SERVICE 49L X 8 9/16 X 3.5", GALVANIZED STEEL HOUSING, CLEAR PRISMATIC POLY-CARBONATE LENS WITH TORX SCREWS. ONE-PIECE MOUNTING GASKET.	UL LISTED WET LOCATION. ROUGH SERVICE FIXTURE.	LITHONIA	VSL-2-32-GE10RS-GLR
FMX2	1	PLT42W/G24q-3/REB41	120	COMPACT FLUORESCENT SURFACE MOUNTED LUMINAIRE, 14" OVERALL DIAMETER, ALUMINUM HOUSING AND POLY-CARBONATE LENS.	UL LISTED WET LOCATION. COLOR SELECTION BY ARCH. ROUGH SERVICE FIXTURE	LITHONIA	VGR1-42TRT-MVOLT-finish-LPI
FRA2	2	F32T8/REB41	120	FLUORESCENT RECESSED STATIC LENSED LUMINAIRE, 2'x4' FLANGE MOUNTED, FLAT STEEL DOOR, 0.125" A-12 CLEAR ACRYLIC PRISMATIC LENS.		COLUMBIA DAYBRITE LITHONIA LSI	2SPB-F-232-A12125-120-GMF
FRA9	3	F17T8/REB41	120	FLUORESCENT RECESSED STATIC LENSED LUMINAIRE, 2'x2' FLANGE MOUNTED, FLAT STEEL DOOR, 0.125" A-12 CLEAR ACRYLIC PRISMATIC LENS.	INCLUDE DIMMING BALLAST	COLUMBIA DAYBRITE LITHONIA LSI	2SPB-F-3-17-A12125-GMF-dim
FRK3	3	F32T8/RE741	120	FLUORESCENT RECESSED PARABOLIC LOUVERED LUMINAIRE, 2' x 4' FLANGE MOUNTED, 18 CELL, 3" DEEP PARABOLIC LOUVER, SEMI-SPECULAR LOW-IRRIDESCENT ALUMINUM.	FOR DUAL SWITCHING / CIRCUITING - CENTER LAMP = SWITCH "a", OR EM CKT; OUTBOARD LAMP = SWITCH "b", OR NORMAL CIRCUIT.	COLUMBIA LITHONIA LSI	2PM3-F-8-332-18-LS-120-GMF
FSK2	2	F 32T8 REB41	120	FLUORESCENT STRIP FIXTURE, 4'-0" L., BAKED WHITE ENAMEL FINISH, SURFACE MOUNTED.	PROVIDE WITH WIRE GUARD.	COLUMBIA DAYBRITE LITHONIA METALUX	C-232-120-GMF-WOCUN
LSSZ		WHITE, WITH UNIT (4000K HO)	120	LED COVE LIGHT, INDIRECT MOUNTED, 6'-0" L. X 2"H X 6"D., AND 1'-6"L. X 2"H X 6"D. HIGH LUMEN OUTPUT, NON-DIMMING.	SEE ARCHITECTURAL DETAIL. FIELD VERIFY LENGTH NEEDED FOR COVES. CONTINUOUS LENGTHS AS SHOWN. USE 18" UNITS TO MATCH COVE LENGTH.	IO LIGHTING	(RAYE SERIES) (72") 0.08.4KH0.C28.1.72.1 (18") 0.08.4KH0.C28.1.18.1
PLO		WITH UNIT	120	PROCEDURE LIGHT, CEILING MOUNTED, DUAL-ARM AND HEADS, LED.	WALL MOUNTED CONTROL PANEL INCLUDED. VERIFY REQUIREMENTS WITH OWNER AND ARCHITECT.	STERIS	HARMONY vLED
XA		WITH UNIT	120	CEILING MOUNTED, SINGLE FACE L.E.D. EXIT SIGN, EDGE-LIT, RED LETTERS ON WHITE BACKGROUND, CHEVRONS AS SHOWN ON DRAWINGS.		LIGHTALARMS SURELITES LITHONIA	LRP-W-1-RW-120/277
XB		WITH UNIT	120	CEILING MOUNTED, DOUBLE FACE L.E.D. TYPE EXIT SIGN, EDGE-LIT, RED LETTERS ON WHITE BACKGROUND, CHEVRONS AS SHOWN ON DRAWINGS.		LIGHTALARMS SURELITES LITHONIA	LRP-W-2-RW-120/277



2
E002
WIRING DIAGRAM
TYPICAL RECEPTACLE INSTALLATION
NO SCALE



1
E002
DETAIL
DUPLX RECEPTACLE
NO SCALE

NOTE:
1. SEE SPECIFICATION SECTION 28 2726 (WIRING DEVICES) FOR DEVICE AND DEVICE PLATE COLORS.
2. MATCH PANEL/CIRCUIT LABELING IN VA FACILITY.

CONSTRUCTION DOCUMENTS - 100% FINALS FULLY SPRINKLERED

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